

From: [Spence, Sandra](#)
To: [Ostrander, David](#); [Wharton, Steve](#); [Wall, Dan](#); [McComb, Martin](#); [Myers, Craig](#)
Subject: FW: Animas River (1508040) Data Package
Date: Friday, August 28, 2015 10:37:12 AM
Attachments: [1508040 FINAL 28 Aug 15.pdf](#)
[EPAR8 SCRIBE 1508040 FINAL 28 Aug 15 0928.xls](#)
[Animas River \(1508040\) Disposal.docx](#)

Hi All, These are the algae and nutrient data that the lab ran for me to answer the “why is the water green blue in the upper Animas” question. I’m not sure who to provide these to....let me know as it would be good to capture the information.

Thanks

From: Batschelet, William
Sent: Friday, August 28, 2015 9:46 AM
To: Spence, Sandra
Cc: Burkhardt, Mark
Subject: Animas River (1508040) Data Package

Attached are the laboratory report, associated data in Scribe compatible electronic format, and sample disposal report for your laboratory service request 1508040 / laboratory project 1508040. Feel free to contact me if you have any questions.

Sandy – This is the complete, final report for these samples, and it confirms the chlorophyll results I previously emailed you.

Bill

William H. Batschelet, PhD
Quality Assurance Officer
USEPA Region 8 Laboratory
16194 W 45th Drive
Golden, CO 80403-1790
Phone: 303-312-7792
FAX: 303- 312-7800



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8 LABORATORY**

16194 W 45th Drive
GOLDEN, CO 80403-1790
Phone 303-312-7700

Ref: 8TMS-L

MEMORANDUM

SUBJECT: Analytical Results--- Animas River 2015 nutrients / 1508040

FROM: Jack Sheets, Inorganic Chemist
Jeff McPherson, Biologist
William H. Batschelet, PhD, Laboratory Quality Assurance Officer

THRU: Mark Burkhardt, PhD, Director
Laboratory Services Program

TO: Sandie Spence, 1595 Wynkoop
Emergency Response

Attached are the analytical results for Animas River 2015 nutrients 1508040. The table below shows the number of containers received , the work order number(s) assigned, and the date received:

	1508040	Total
19-Aug-2015	15	15

These samples were prepared, analyzed, and verified by the Region 8 Laboratory according to the requirements of the Laboratory Services Request (LSR) and procedures found in the laboratory Quality Assurance Manual (QSP-001) dated June 11, 2014.

Sample Receipt

All samples were received in acceptable condition except as noted in the Analyst Comments or Appendix A. The number of samples received and analyses are listed in Appendix B.

Sample Analysis

All sample results are reported on an as-received basis except as noted in the Analyst Comments. All samples were analyzed within holding times except as noted in Appendix A. All analyses met QC acceptance criteria except as noted in the Analyst Comments or Appendix A.

Field Measurements

All field measurements met QC acceptance criteria except as noted in the Analyst Comments or Appendix A.

QC Note

Routine sample quality control results such as blanks, matrix spikes, and laboratory duplicates, etc. are reported on the quality control pages of this report. Certain of the reported QC criteria may not be applicable or otherwise affect the data usability. Appendix C summarizes the guidelines used by the Region 8 Laboratory to qualify data. This is a general table and may or may not be applicable to this project.

Analyst Comments

Chlorophyll by EPA 446.0

Station ID: Sanarita Park

Date / Time Sampled: 08/19/15 07:45

Workorder 1508040

EPA Tag No.:

Matrix: Water

Lab Number: 1508040-01 C

Method	Parameter	Results	Units	Qual- ifier	Report Limit	Dilution Factor	Analyzed	By	Batch
EPA 446.0	Chlorophyll-a	< 2.00	ug/L		2.00	1	08/21/2015	JWM	1500449

Station ID: Baker's Bridge

Date / Time Sampled: 08/19/15 08:30

Workorder 1508040

EPA Tag No.:

Matrix: Water

Lab Number: 1508040-02 C

Method	Parameter	Results	Units	Qual- ifier	Report Limit	Dilution Factor	Analyzed	By	Batch
EPA 446.0	Chlorophyll-a	< 2.34	ug/L		2.34	1	08/21/2015	JWM	1500449

Station ID: A72

Date / Time Sampled: 08/19/15 09:23

Workorder 1508040

EPA Tag No.:

Matrix: Water

Lab Number: 1508040-03 C

Method	Parameter	Results	Units	Qual- ifier	Report Limit	Dilution Factor	Analyzed	By	Batch
EPA 446.0	Chlorophyll-a	< 3.34	ug/L		3.34	1	08/21/2015	JWM	1500449

Station ID: A68

Date / Time Sampled: 08/19/15 09:36

Workorder 1508040

EPA Tag No.:

Matrix: Water

Lab Number: 1508040-04 C

Method	Parameter	Results	Units	Qual- ifier	Report Limit	Dilution Factor	Analyzed	By	Batch
EPA 446.0	Chlorophyll-a	< 2.00	ug/L		2.00	1	08/21/2015	JWM	1500449

Station ID: CC48

Date / Time Sampled: 08/19/15 09:45

Workorder 1508040

EPA Tag No.:

Matrix: Water

Lab Number: 1508040-05 C

Method	Parameter	Results	Units	Qual- ifier	Report Limit	Dilution Factor	Analyzed	By	Batch
EPA 446.0	Chlorophyll-a	< 3.32	ug/L		3.32	1	08/21/2015	JWM	1500449

Inorganic Chemistry Parameters

Station ID: Sanarita Park

Date / Time Sampled: 08/19/15 07:45

Workorder 1508040

EPA Tag No.:

Matrix: Water

Lab Number: 1508040-01 A

Method	Parameter	Results	Units	Qual- ifier	Report Limit	Dilution Factor	Analyzed	By	Batch
EPA 365.4 - TPP	Phosphorus	< 0.0100	mg/L		0.0100	1	08/21/2015	JDS	1500424

Station ID: Sanarita Park

Date / Time Sampled: 08/19/15 07:45

Workorder 1508040

EPA Tag No.:

Matrix: Water

Lab Number: 1508040-01 B

Method	Parameter	Results	Units	Qual- ifier	Report Limit	Dilution Factor	Analyzed	By	Batch
EPA 415.1	Total Nitrogen	0.125	mg/L		0.100	1	08/20/2015	JDS	1500423

Station ID: Baker's Bridge

Date / Time Sampled: 08/19/15 08:30

Workorder 1508040

EPA Tag No.:

Matrix: Water

Lab Number: 1508040-02 A

Method	Parameter	Results	Units	Qual- ifier	Report Limit	Dilution Factor	Analyzed	By	Batch
EPA 365.4 - TPP	Phosphorus	< 0.0100	mg/L		0.0100	1	08/21/2015	JDS	1500424

Station ID: Baker's Bridge

Date / Time Sampled: 08/19/15 08:30

Workorder 1508040

EPA Tag No.:

Matrix: Water

Lab Number: 1508040-02 B

Method	Parameter	Results	Units	Qual- ifier	Report Limit	Dilution Factor	Analyzed	By	Batch
EPA 415.1	Total Nitrogen	0.103	mg/L		0.100	1	08/20/2015	JDS	1500423

Station ID: A72

Date / Time Sampled: 08/19/15 09:23

Workorder 1508040

EPA Tag No.:

Matrix: Water

Lab Number: 1508040-03 A

Method	Parameter	Results	Units	Qual- ifier	Report Limit	Dilution Factor	Analyzed	By	Batch
EPA 365.4 - TPP	Phosphorus	0.0170	mg/L		0.0100	1	08/21/2015	JDS	1500424

Station ID: A72

Date / Time Sampled: 08/19/15 09:23

Workorder 1508040

EPA Tag No.:

Matrix: Water

Lab Number: 1508040-03 B

Method	Parameter	Results	Units	Qual- ifier	Report Limit	Dilution Factor	Analyzed	By	Batch
EPA 415.1	Total Nitrogen	0.113	mg/L		0.100	1	08/20/2015	JDS	1500423

Inorganic Chemistry Parameters

Station ID: A68

Date / Time Sampled: 08/19/15 09:36

Workorder 1508040

EPA Tag No.:

Matrix: Water

Lab Number: 1508040-04 A

Method	Parameter	Results	Units	Qual- ifier	Report Limit	Dilution Factor	Analyzed	By	Batch
EPA 365.4 - TPP	Phosphorus	< 0.0100	mg/L		0.0100	1	08/21/2015	JDS	1500424

Station ID: A68

Date / Time Sampled: 08/19/15 09:36

Workorder 1508040

EPA Tag No.:

Matrix: Water

Lab Number: 1508040-04 B

Method	Parameter	Results	Units	Qual- ifier	Report Limit	Dilution Factor	Analyzed	By	Batch
EPA 415.1	Total Nitrogen	0.105	mg/L		0.100	1	08/20/2015	JDS	1500423

Station ID: CC48

Date / Time Sampled: 08/19/15 09:45

Workorder 1508040

EPA Tag No.:

Matrix: Water

Lab Number: 1508040-05 A

Method	Parameter	Results	Units	Qual- ifier	Report Limit	Dilution Factor	Analyzed	By	Batch
EPA 365.4 - TPP	Phosphorus	0.104	mg/L		0.0100	1	08/21/2015	JDS	1500424

Station ID: CC48

Date / Time Sampled: 08/19/15 09:45

Workorder 1508040

EPA Tag No.:

Matrix: Water

Lab Number: 1508040-05 B

Method	Parameter	Results	Units	Qual- ifier	Report Limit	Dilution Factor	Analyzed	By	Batch
EPA 415.1	Total Nitrogen	< 0.100	mg/L		0.100	1	08/20/2015	JDS	1500423

Note: "J" Qualifier indicates an estimated value.

Chlorophyll by EPA 446.0 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
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Batch 1500449 - EPA 446**Method Blank (1500449-BLK1)**

Prepared: 08/20/15 Analyzed: 08/21/15

Chlorophyll-a < 200 200 ug/L

Method Blank Spike (1500449-BS1)

Prepared: 08/20/15 Analyzed: 08/21/15

Chlorophyll-a 988 200 ug/L 1000 98.8 50-150

Duplicate (1500449-DUP1)**Source: 1508040-01**

Prepared: 08/20/15 Analyzed: 08/21/15

Chlorophyll-a 1.87 2.00 ug/L 1.87 0.00 20

Inorganic Chemistry Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch 1500423 - Default Prep GenChem

Method Blank (1500423-BLK1) Prepared & Analyzed: 08/20/15

Total Nitrogen < 0.100 0.100 mg/L

Method Blank (1500423-BLK2) Prepared & Analyzed: 08/20/15

Total Nitrogen < 0.100 0.100 mg/L

Method Blank Spike (1500423-BS1) Prepared & Analyzed: 08/20/15

Total Nitrogen 1.86 0.100 mg/L 2.00 93.0 80-120

Duplicate (1500423-DUP2) Source: 1508040-01 Prepared & Analyzed: 08/20/15

Total Nitrogen 0.124 0.100 mg/L 0.125 0.482 20

Matrix Spike (1500423-MS2) Source: 1508040-01 Prepared & Analyzed: 08/20/15

Total Nitrogen 2.02 0.100 mg/L 2.00 0.125 94.8 80-120

Matrix Spike Dup (1500423-MSD2) Source: 1508040-01 Prepared & Analyzed: 08/20/15

Total Nitrogen 2.03 0.100 mg/L 2.00 0.125 95.4 80-120 0.642 20

Reference (1500423-SRM2) Prepared & Analyzed: 08/20/15

Total Nitrogen 1.78 0.100 mg/L 2.00 89.2 80-120

Batch 1500424 - Default Prep GenChem

Method Blank (1500424-BLK1) Prepared: 08/20/15 Analyzed: 08/21/15

Phosphorus < 0.0100 0.0100 mg/L

Method Blank Spike (1500424-BS1) Prepared: 08/20/15 Analyzed: 08/21/15

Phosphorus 0.486 0.0100 mg/L 0.500 97.2 80-120

Inorganic Chemistry Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch 1500424 - Default Prep GenChem

Duplicate (1500424-DUP2)	Source: 1508040-01	Prepared: 08/20/15	Analyzed: 08/21/15
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Phosphorus	0.0050	0.0100	mg/L	0.0054	7.80	20
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Matrix Spike (1500424-MS2)	Source: 1508040-01	Prepared: 08/20/15	Analyzed: 08/21/15
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Phosphorus	0.496	0.0100	mg/L	0.500	0.0054	98.1	80-120
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Matrix Spike Dup (1500424-MSD2)	Source: 1508040-01	Prepared: 08/20/15	Analyzed: 08/21/15
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Phosphorus	0.491	0.0100	mg/L	0.500	0.0054	97.1	80-120	1.03	20
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Reference (1500424-SRM1)	Prepared: 08/20/15	Analyzed: 08/21/15
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Phosphorus	4.12	0.0500	mg/L	4.00	103	90-110
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NOTE:

%REC is percent recovery, Result (less sample contribution) divided by the Spike Level

RPD is the Relative Percent Difference (difference between the Result and the Source Result) divided by their average

US ENVIRONMENTAL PROTECTION AGENCY REGION 8 - Chain Of Custody										
PROJECT NAME		LSR #		ANALYSIS						COMMENTS
Cement Creek/Animas Green Color Study		1508040								
SAMPLER(S):										
Name: Steve Auer		Signature:								
STATION ID	STATION DESCRIPTION + NOTES	DATE	TIME	MATRIX	PRESERVATIVE	Chlorophyll	Total Nitrogen	Total Phosphorus	NUMBER OF CONTAINERS	LAB ID
Sanaria Park	Animas at Sanaria Park	8/19/2015	7:45	W	7	X			1508040-01	C
Sanaria Park	Animas at Sanaria Park	8/19/2015	7:45	W	7		X			B
Sanaria Park	Animas at Sanaria Park	8/19/2015	7:45	W	7			X		A
Bakers Bridge	Animas DS Bakers Bridge	8/19/2015	8:30	W	7	X			-02	C
Bakers Bridge	Animas DS Bakers Bridge	8/19/2015	8:30	W	7		X			B
Bakers Bridge	Animas DS Bakers Bridge	8/19/2015	8:30	W	7			X		A
A-72	Animas Site	8/19/2015	9:23	W	7	X			-03	C
A-72	Animas Site	8/19/2015	9:23	W	7		X			B
A-72	Animas Site	8/19/2015	9:23	W	7			X		A
A-68	Animas Upstream of Cement Creek	8/19/2015	9:36	W	7	X			-04	C
A-68	Animas Upstream of Cement Creek	8/19/2015	9:36	W	7		X			B
A-68	Animas Upstream of Cement Creek	8/19/2015	9:36	W	7			X		A
CC-48	Cement Creek	8/19/2015	9:45	W	7				-05	C
CC-48	Cement Creek	8/19/2015	9:45	W	7		X			B
CC-48	Cement Creek	8/19/2015	9:45	W	7			X		A
Steve Auer/Sandra Spence		Date/Time: 8/19/2015 4:30 pm		2. Relinquished By:		Date/Time:		3. Relinquished By:		Date/Time:
1. Received By: <i>Paul Shust</i>		Date/Time: 8/19/15 16:30		2. Received By:		Date/Time:		3. Received By:		Date/Time:
PRESERVATIVES 1. HNO ₃ 2. H ₂ SO ₄ 3. NaOH 4. HCl 5. Na ₂ SO ₃ 7. Ice 8. Other		MATRIX W. Water S. Soil Sed. Sediment Bio. Bio Tissue O. Other		Cooler temp =		Page 1 of 1				

Region 8 Laboratory
16104 W. 46th Drive
Golden, CO 80603
Fax: 303-312-7800

Appendix A - Exceptions Report

<u>Lab Number</u>	<u>Sample Name</u>	<u>Analysis</u>	<u>Analyte Name</u>	<u>Explanation</u>
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Appendix B - Samples and Analysis

<u>Work Order #</u>	<u># Samples</u>	<u>Analysis</u>	<u>Method Name</u>	<u>Lab SOP</u>
1508040	5	Chlorophyll-a by spec	EPA 446.0	ORGM-010v10 Chlorophyll A (Method 446)
1508040	5	TOC - TN	EPA 415.1	INORM-323v10_TOC-T N
1508040	5	TP - R8	EPA 365.4 - TP	Draft SOP

Appendix C - Data Assessment Guidelines

QC Check (Symbol)	Flagging Criteria
Initial Calibration (ICAL)	All failing analytes for all samples are qualified as estimated.
Initial Calibration Verification (ICV) or Standard Reference Material (SRM)	High failure: All detections for failing analytes for all samples are qualified as estimated. Low failure: All failing analytes for all samples are qualified as estimated.
Continuing Calibration Verification (CCV)	High failure: All detections for failing analytes for all associated samples are qualified as estimated. Low failure: All failing analytes for all associated samples are qualified as estimated.
Continuing Calibration Blank (CCB)	All detections for failing analytes for all associated samples where the concentration in the blank is greater than 1/10 the amount measured in the sample OR the blank contamination otherwise affects the sample results are qualified as estimated.
Blanks (BLK) Preparation Blank, Method, Trip, Storage, etc.	All detections for failing analytes for all samples where the concentration in the blank is greater than 1/10 the amount measured in the sample OR the blank contamination otherwise affects the sample results are qualified as estimated.
Lab Control Sample (LCS) or Standard Reference Material (SRM) or Blank Spike (BS)	High failure: All detections for failing analytes for all associated samples are qualified as estimated. Low failure: All failing analytes for all associated samples are qualified as estimated.
Matrix Spike (MS)	High failure: All detections for failing analytes in the parent sample are qualified as estimated. Low failure: All failing analytes in the parent sample are qualified as estimated. No qualification if the native concentration is greater than or equal to 4x the spike concentration.
Matrix Spike Duplicate (MSD)	%R Failure: Same as matrix spike. RPD Failure: All failing analytes in the parent sample are qualified as estimated.
Duplicate Sample (DUP)	All failing analytes in the parent sample are qualified as estimated. No qualification if the native concentration is less than the RL.
Serial Dilution (SD)	All failing analytes in the parent sample are qualified as estimated. No qualification if native concentration is less than or equal to 50x the RL.
Detection Limit Standard (CRA) or (CRL)	High failure: All detections for failing analytes less than or equal to 5x the concentration in the CRL for all associated samples are qualified as estimated. Low failure: All failing analytes less than or equal to 5x the RL for all associated samples are qualified as estimated.
Internal Standard (IS)	All analytes associated with the failing IS are qualified as estimated.
Surrogate Spike (SURR)	High failure: All detections for all analytes associated with the failing surrogate are qualified as estimated. Low failure: All analytes associated with the failing surrogate are qualified as estimated. If obvious chromatographic interference with the surrogate is present, qualification may not be necessary and will be based on the professional judgment of the analyst.

Note: The J Qualifier is used to indicate an estimated value.



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8 LABORATORY**

16194 W 45th Drive
GOLDEN, CO 80403-1790
Phone 303-312-7700

Ref: TMS-L

MEMORANDUM

SUBJECT: Animas River - 2015 (1508040) Sample Disposal

FROM: Gregory J. Saunders, Environmental Scientist (signed)
Laboratory Services Program

TO: Sandra Spence, 1595 Wynkoop
Emergency Response

Space limitations require the Region 8 Laboratory to follow timely sample disposal procedures. Laboratory policy is to dispose of samples 60 days after data analysis packages are delivered to program managers. Additionally, the laboratory's policy is to not run or rerun samples that have exceeded holding times. Samples exceeding analytical holding times will be disposed of appropriately regardless of the 60 day disposal policy.

Please advise me by **October 27, 2015** if you require the laboratory to retain the samples longer than the normal 60 days.

If you would like the laboratory to retain the samples for a period longer than 60 days after receipt of the data packet or if you have other questions regarding this policy, please contact me by using the information below:

Gregory J. Saunders, Environmental Scientist
Laboratory Services Program, 8TMS-L
Email: saunders.gregory@epa.gov
Telephone: (303) 312-7709
Fax: (303) 312-7800



Printed on Recycled Paper

SCRIBEDATA

CLIENT	PROJECT	PROJECTNUM	LABNAME	STATION_ID	ADDITIONAL LOCATION INFO	EPA TAG NO	LABSAMP ID	MATRIX	SUBMATE RIX	SAMPLE TYPE	SAMPDATE	PREPDATE	ANALYDATE	BATCH	ANALYSIS	METHODNAME	PREPNAME	ANALYTE	CASNUMBER	SURROGATE	RESULT	DETECTED	DETECTED	QUALIFIER	RESULT QUALIFIER	MDL	MRL	UNITS	DILUTION	SPIKELEVEL	RECOVERY	UPPERCL	LOWERC	ANALYST	PSOLIDS	PCT. MOISTURE	REMARKS	SAMP_DEPTH	SAMP_DEPTH TO	SAMP_DEPTH UNITS	SAMPLE R	SAMPLE TIME	Latitude	Longitude	Elevation
Emergency Response	Animas River 2015 nutrients	1508040	U.S. EPA, Region 8 Laboratory	A68			1508040-04	Water	Water	Grab	2015-08-19 09:36:00	2015-08-20 10:32:00	2015-08-20 17:06:49	1500423	TOC - TN	EPA 415.1	Default Prep GenChem	Total Nitrogen	NA	FALSE	0.105	0.105	Y			0.050	0.100	mg/L	1					JDS					Feet	Sandie Spence	2015-08-19 09:36:00				
Emergency Response	Animas River 2015 nutrients	1508040	U.S. EPA, Region 8 Laboratory	A68			1508040-04	Water	Water	Grab	2015-08-19 09:36:00	2015-08-20 11:32:00	2015-08-21 09:24:01	1500424	TP - R8	EPA 365.4 - TP	Default Prep GenChem	Phosphorus	7723-14-0	FALSE		<0.0100	N		U	0.0040	0.0100	mg/L	1					JDS					Feet	Sandie Spence	2015-08-19 09:36:00				
Emergency Response	Animas River 2015 nutrients	1508040	U.S. EPA, Region 8 Laboratory	A68			1508040-04	Water	Water	Grab	2015-08-19 09:36:00	2015-08-20 17:05:00	2015-08-21 08:55:00	1500449	Chlorophyll-a by spec	EPA 446.0	EPA 446	Chlorophyll-a	42617-16-3	FALSE		<2.00	N		UD	0.50	2.00	ug/L	1					JWM					Feet	Sandie Spence	2015-08-19 09:36:00				
Emergency Response	Animas River 2015 nutrients	1508040	U.S. EPA, Region 8 Laboratory	A72			1508040-03	Water	Water	Grab	2015-08-19 09:23:00	2015-08-20 10:32:00	2015-08-21 16:51:14	1500423	TOC - TN	EPA 415.1	Default Prep GenChem	Total Nitrogen	NA	FALSE	0.113	0.113	Y			0.050	0.100	mg/L	1					JDS					Feet	Sandie Spence	2015-08-19 09:23:00				
Emergency Response	Animas River 2015 nutrients	1508040	U.S. EPA, Region 8 Laboratory	A72			1508040-03	Water	Water	Grab	2015-08-19 09:23:00	2015-08-20 11:32:00	2015-08-21 08:22:36	1500424	TP - R8	EPA 365.4 - TP	Default Prep GenChem	Phosphorus	7723-14-0	FALSE	0.0170	0.0170	Y			0.0040	0.0100	mg/L	1					JDS					Feet	Sandie Spence	2015-08-19 09:23:00				
Emergency Response	Animas River 2015 nutrients	1508040	U.S. EPA, Region 8 Laboratory	A72			1508040-03	Water	Water	Grab	2015-08-19 09:23:00	2015-08-20 17:05:00	2015-08-21 08:55:00	1500449	Chlorophyll-a by spec	EPA 446.0	EPA 446	Chlorophyll-a	42617-16-3	FALSE		<3.34	N		UD	0.83	3.34	ug/L	1					JWM					Feet	Sandie Spence	2015-08-19 09:23:00				
Emergency Response	Animas River 2015 nutrients	1508040	U.S. EPA, Region 8 Laboratory	Baker's Bridge			1508040-02	Water	Water	Grab	2015-08-19 08:30:00	2015-08-20 10:32:00	2015-08-21 16:38:05	1500423	TOC - TN	EPA 415.1	Default Prep GenChem	Total Nitrogen	NA	FALSE	0.103	0.103	Y			0.050	0.100	mg/L	1					JDS					Feet	Sandie Spence	2015-08-19 08:30:00				
Emergency Response	Animas River 2015 nutrients	1508040	U.S. EPA, Region 8 Laboratory	Baker's Bridge			1508040-02	Water	Water	Grab	2015-08-19 08:30:00	2015-08-20 11:32:00	2015-08-21 09:21:07	1500424	TP - R8	EPA 365.4 - TP	Default Prep GenChem	Phosphorus	7723-14-0	FALSE		<0.0100	N		U	0.0040	0.0100	mg/L	1					JDS					Feet	Sandie Spence	2015-08-19 08:30:00				
Emergency Response	Animas River 2015 nutrients	1508040	U.S. EPA, Region 8 Laboratory	Baker's Bridge			1508040-02	Water	Water	Grab	2015-08-19 08:30:00	2015-08-20 17:05:00	2015-08-21 08:55:00	1500449	Chlorophyll-a by spec	EPA 446.0	EPA 446	Chlorophyll-a	42617-16-3	FALSE		<2.34	N		UD	0.59	2.34	ug/L	1					JWM					Feet	Sandie Spence	2015-08-19 08:30:00				
Emergency Response	Animas River 2015 nutrients	1508040	U.S. EPA, Region 8 Laboratory	CC48			1508040-05	Water	Water	Grab	2015-08-19 09:45:00	2015-08-20 10:32:00	2015-08-21 17:21:37	1500423	TOC - TN	EPA 415.1	Default Prep GenChem	Total Nitrogen	NA	FALSE		<0.100	N		U	0.050	0.100	mg/L	1					JDS					Feet	Sandie Spence	2015-08-19 09:45:00				
Emergency Response	Animas River 2015 nutrients	1508040	U.S. EPA, Region 8 Laboratory	CC48			1508040-05	Water	Water	Grab	2015-08-19 09:45:00	2015-08-20 11:32:00	2015-08-21 09:25:28	1500424	TP - R8	EPA 365.4 - TP	Default Prep GenChem	Phosphorus	7723-14-0	FALSE	0.104	0.104	Y			0.0040	0.0100	mg/L	1					JDS					Feet	Sandie Spence	2015-08-19 09:45:00				
Emergency Response	Animas River 2015 nutrients	1508040	U.S. EPA, Region 8 Laboratory	CC48			1508040-05	Water	Water	Grab	2015-08-19 09:45:00	2015-08-20 17:05:00	2015-08-21 08:55:00	1500449	Chlorophyll-a by spec	EPA 446.0	EPA 446	Chlorophyll-a	42617-16-3	FALSE		<3.32	N		UD	0.83	3.32	ug/L	1					JWM					Feet	Sandie Spence	2015-08-19 09:45:00				
Emergency Response	Animas River 2015 nutrients	1508040	U.S. EPA, Region 8 Laboratory	Sanarita Park			1508040-01	Water	Water	Grab	2015-08-19 07:45:00	2015-08-20 10:32:00	2015-08-21 15:46:21	1500423	TOC - TN	EPA 415.1	Default Prep GenChem	Total Nitrogen	NA	FALSE	0.125	0.125	Y			0.050	0.100	mg/L	1					JDS					Feet	Sandie Spence	2015-08-19 07:45:00				
Emergency Response	Animas River 2015 nutrients	1508040	U.S. EPA, Region 8 Laboratory	Sanarita Park			1508040-01	Water	Water	Grab	2015-08-19 07:45:00	2015-08-20 11:32:00	2015-08-21 09:15:20	1500424	TP - R8	EPA 365.4 - TP	Default Prep GenChem	Phosphorus	7723-14-0	FALSE		<0.0100	N		U	0.0040	0.0100	mg/L	1					JDS					Feet	Sandie Spence	2015-08-19 07:45:00				
Emergency Response	Animas River 2015 nutrients	1508040	U.S. EPA, Region 8 Laboratory	Sanarita Park			1508040-01	Water	Water	Grab	2015-08-19 07:45:00	2015-08-20 17:05:00	2015-08-21 08:55:00	1500449	Chlorophyll-a by spec	EPA 446.0	EPA 446	Chlorophyll-a	42617-16-3	FALSE		<2.00	N		UD	0.50	2.00	ug/L	1					JWM					Feet	Sandie Spence	2015-08-19 07:45:00				